

# Project Profile



## PROJECT INFO:

NAME: Freeland Park/ Whidbey Island, WA

TYPE: Retrofit

INSTALLATION DATE: May 2009

SYSTEM CONFIGURATION:

- (1) 4x4 unit



A Filterra Bioretention System was installed at Freeland Park to help treat urban runoff, reducing the amount of pollutants entering Holmes Harbor.

## Highlights:

Stormwater runoff is one of the leading contributors of pollutants to the Puget Sound; impairing the health, water quality, and its habitats. The stormwater runoff from Freeland Park was contaminated with trash, bacteria and other toxins creating a negative impact on water quality and commercial shellfish beds in Holmes Harbor. In an effort to improve the water quality Island County installed a Filterra Bioretention System designed to reduce the amount of TSS, metals, nutrients and bacteria from entering Holmes Harbor.

## Challenge:

The specific challenge of this project was to provide a cost effective solution to reduce and remediate the adverse impact the polluted stormwater runoff was having on the water quality and shellfish health in Holmes Harbor. As the problem persisted the State Department of Health required Island County to establish a district wide shellfish protection program designed to promote efforts for cleaning the harbor and improving water quality. Due to the Shellfish Protection District Status, Island County was awarded a grant from the State Department of Ecology to address the aforementioned stormwater impacts.

## Solution:

Island County implemented several substantial drainage improvements to the Freeland Park site including a Filterra Bioretention System as well as various raingarden installations. The purchase and installation of the Filterra system was primarily funded by a grant received from the Washington State Department of Ecology, with additional support from Island County. The Filterra Bioretention System was the logical choice for county officials due the documented third party verification supporting the effectiveness and ability of the Filterra units to provide removal of TSS, metals, nutrients and bacteria.



Filtrerra's small footprint made for simple installation in Freeland Park.

## Freeland Park / Whidbey Island, WA

### DESIGN DETAILS:

Engineering and management services were provided through a collaborative effort on behalf of Island County and the Whidbey Island Conservation District.

A Thuja occidentalis 'Hills Dark Green' Arborvitae was installed in the stormwater systems to assist with pollutant removal, to match the existing landscape, and add aesthetics to the streetscape.

### Why Filterra:

Filtrerra is a proven, highly-effective, stormwater treatment system that removes a variety of pollutants of concern.

The engineered media within Filterra allows TSS, Nutrients, Metals, Oil/Grease and Bacteria to be naturally removed while reducing thermal impacts.

Filtrerra offers a compact "green" solution incorporating local trees and shrubs.

Maintenance is safe, simple and inexpensive.

A standard maintenance agreement is included with every purchase.

Our staff is available to assist you with all of your project requirements.